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ACB530-PC
Packaged Drive with Disconnect
Supplement to MN796, ACB530 User's Manual

1/13 **Installation & Operating Manual** MN796SUP

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Important:
Be sure to check www.baldor.com for the latest software, firmware and drivers for your ACB530 product. Also you can download the latest version of this manual in Adobe Acrobat PDF format.

ACB530 Drive Manuals

GENERAL MANUALS

MN796 - ACB5300-U1 User's Manual (1…200 HP)
- Safety
- Installation
- Start-Up
- Embedded Fieldbus
- Fieldbus Adapter
- Diagnostics
- Maintenance
- Technical Data

MN796SUP - ACB530-PC Packaged Drive with Disconnect
Supplement for MN796, ACB530-U1 User's Manual
- Safety
- Installation
- Start-Up
- Maintenance
- Technical Data

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Chapter 1
Introduction

1.1 Manual Introduction

1.1.1 What This Chapter Contains

This chapter contains introductory information related to the ACB530 variable frequency drive. This drive provides functionality that can be used to control many variable speed applications.

This manual contains supplemental information that is unique tot he ACB530 input disconnect configurations (PC). Refer to MN796 User's Manual for all other information.

1.2 Safety Notices

This equipment contains voltages that may be as high as 1000 volts! Electrical shock can cause serious or fatal injury. Only qualified personnel should attempt the start-up procedure or troubleshoot this equipment. This equipment may be connected to other machines that have rotating parts or parts that are driven by this equipment. Improper use can cause serious or fatal injury. Only qualified personnel should attempt the start-up procedure or troubleshoot this equipment.

1.3 Use of Warnings

Warnings caution you about conditions which can result in serious injury or death and/or damage to the equipment, and advise on how to avoid the danger. The following types of warnings are used in this manual:

Electricity warning warns of hazards from electricity which can cause physical injury and/or damage to the equipment.

General warning warns about conditions, other than those caused by electricity, which can result in physical injury and/or damage to the equipment.

1.4 Safety Related to Installation and Maintenance

These warnings are intended for anyone who works on the drive, power cables or motor.

1.4.1 Electrical Safety

WARNING: The ACB530 adjustable speed AC drive with Input Disconnect should ONLY be installed by a qualified electrician.

WARNING: Even when the motor is stopped, dangerous voltage is present at the Power Circuit terminals U1, V1, W1 and U2, V2, W2 and, depending on the frame size, UDC+ and UDC-, or BRK+ and BRK-.

WARNING: Dangerous voltage is present when input power is connected. After disconnecting the supply, wait at least 5 minutes (to let the intermediate circuit capacitors discharge) before removing the cover.

WARNING: Even when power is removed from the input terminals of the ACB530, there may be dangerous voltage (from external sources) on the terminals of the relay outputs.

WARNING: When the control terminals of two or more drive units are connected in parallel, the auxiliary voltage for these control connections must be taken from a single source which can either be one of the units or an external supply.

WARNING: The ACB530 will start up automatically after an input voltage interruption if the external run command is on.

WARNING: When the ACB530 with Input Disconnect is connected to the line power, the Motor Terminals T1, T2, and T3 are live even if the motor is not running. Do not make any connections when the ACB530 with Input Disconnect is connected to the line. Disconnect and lock out power to the drive before servicing the drive. Failure to disconnect power may cause serious injury or death.

NOTE: For more technical information, contact the factory or your local Baldor sales representative.

Chapter 2
Installation

2.1 Installation

Study these installation instructions carefully before proceeding. Failure to observe the warnings and instructions may cause a malfunction or personal hazard.

WARNING: Before you begin read “Safety” on page 1.

WARNING: When the ACB530 with Input Disconnect is connected to the line power, the Motor Terminals T1, T2, and T3 are live even if the motor is not running. Do not make any connections when the ACB530 with Input Disconnect is connected to the line. Disconnect and lock out power to the drive before servicing the drive. Failure to disconnect power may cause serious injury or death.

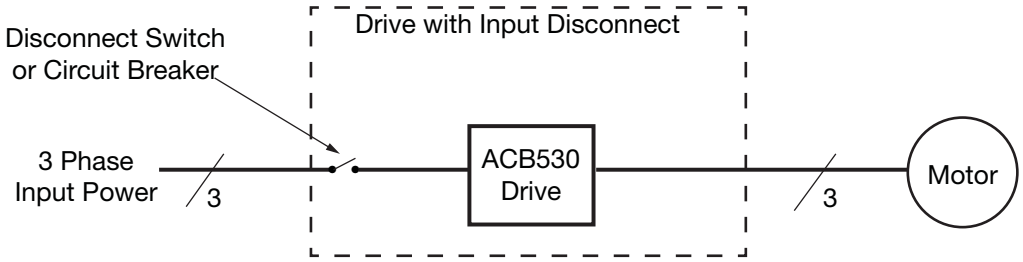
2.1.1 Application

This manual contains supplemental information that is unique to ACB530 input disconnect configurations (PC). Refer to the base manual, MN796, the ACB530-U1 User’s Manual, for all other information.

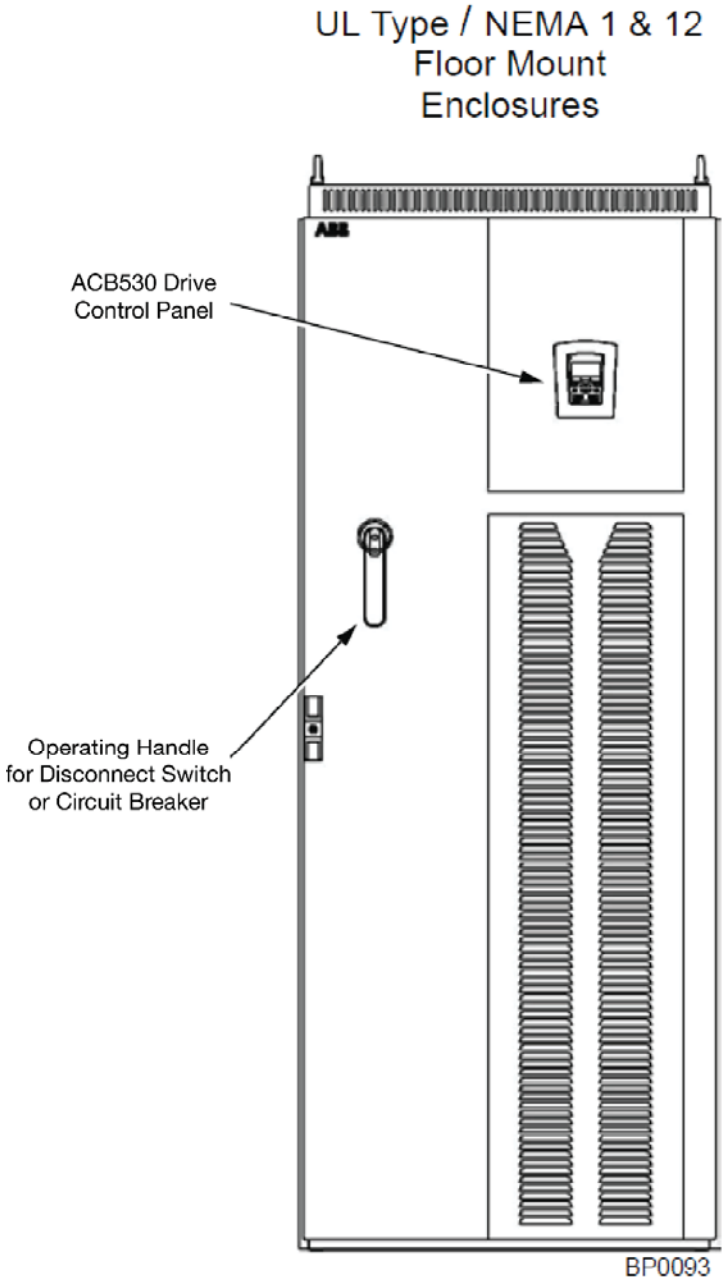
2.1.2 Input Disconnect Features and Functions

The ACB530 with Input Disconnect is an ACB530 AC adjustable frequency drive packaged with an input circuit breaker disconnect, and with a door mounted, external operating handle. The operating handle can be padlocked in the OFF position (padlock not supplied). Enclosure options are UL Type 1, UL Type 12, (NEMA 1 and NEMA 12).

The following is a typical power diagram.



The following figure shows the front view of the ACB530 Drive with Input Disconnect standard configurations, and identify the major components.



2.1.3 Installation Flow Chart

The installation of Input Disconnect configurations for ACB530 drives follows the outline below. The steps must be carried out in the order shown. At the right of each step are references to the detailed information needed for the correct installation of the unit.

Note: References in the middle column below are to MN796, the ACB530-U1 User's Manual. References in the third column below are to this manual.

Task	Refer to MN796, the ACB530-U1 User's Manual "Installation" section	Additional Reference in this Manual
PREPARE for installation	"Preparing for Installation"	• R8: "Lifting the Drive" • "Drive Identification" • "Suitable Mounting Location"
↓		
PREPARE the Mounting Location	"Prepare the Mounting Location"	• R8: "Prepare the Mounting Location – R8" • "Dimensions and Weights
↓		
REMOVE the front cover	"Remove Front Cover"	R8: "Remove Side Panel - R8 UL Type / NEMA 1 & 12 Enclosures"
↓		
MOUNT the drive	"Mount the Drive"	R8: "Mount the Drive"
↓		
INSTALL wiring	"Wiring Overview" and "Install the Wiring"	"Installing the Wiring"
↓		
CHECK installation	"Check Installation"	--
↓		
RE-INSTALL the cover	"Re-install Cover"	--
↓		
APPLY power	"Apply Power"	--
↓		
START-UP	"Start-Up"	--

2.1.4 Preparing for Installation

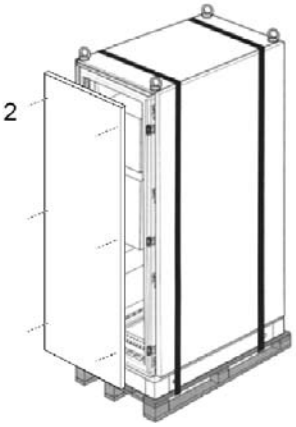
2.1.4.1 Lifting the Drive

R8

Warning: Handle and ship floor mounted enclosures only in the upright position. These units are not designed to be laid on their backs.

1. Use a pallet truck to move the package/enclosure to the installation site.

2. Remove the cabinet side panels from UL Type/NEMA 1 and 12 enclosures for access to the cabinet/pallet mounting bolts. (6 torx screws hold each cabinet side panel in place. Leave the side panels off until later.)
3. Remove the 4 bolts that secure the cabinet to the shipping pallet.



Warning: Use the lifting lugs/bars at the top of the unit to lift R8 drives.

4. Use a hoist to lift the drive. (Do not place drive in final position until mounting site is prepared.)

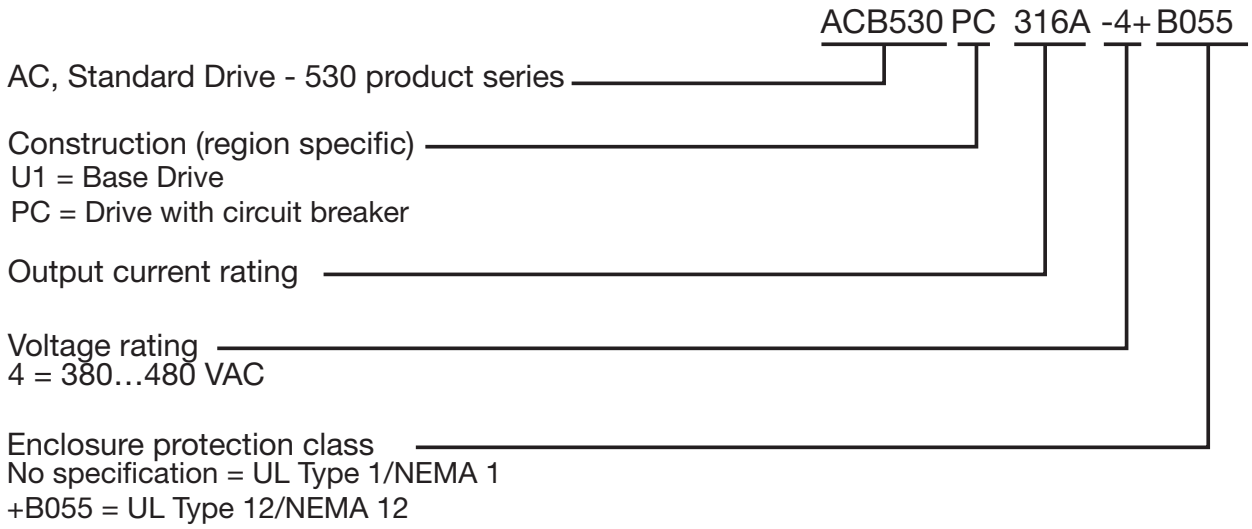
2.1.4.2 Drive Identification

To identify the type of device you are installing, refer to the type code number on the device identification label.

- Wall mounting base drives – label attached on the side surface of the heat sink.
- Packaged drive with screw cover – label attached to outside surface on the left ide of the enclosure.
- Enclosure with hinged cover/door – label on inside surface of the cover/door.

Type Code Number

Use the following to interpret the type code found on the identification label.


ACB530 PC 316A -4+ B055
AC, Standard Drive - 530 product series
Construction (region specific)
U1 = Base Drive
PC = Drive with circuit breaker
Output current rating
Voltage rating
4 = 380…480 VAC
Enclosure protection class
No specification = UL Type 1/NEMA 1
+B055 = UL Type 12/NEMA 12

Ratings and Frame Size

Charts in the "Ratings" sections of MN796, the ACB530-U1 User's Manual, and this manual list technical specifications, and identify the drive's frame size.

NOTE: Some instructions in this document vary, depending on the drive's frame size. To read the Ratings table, you need the "Output current rating" entry from the type code (see above).

2.1.4.3 Suitable Mounting Location

For selecting a suitable mounting location for PC configurations, refer to:

- Preparing for installation in MN796, the ACB530-U1 User's Manual, and
- The Technical Data section of this manual for information on dimensions and weights.

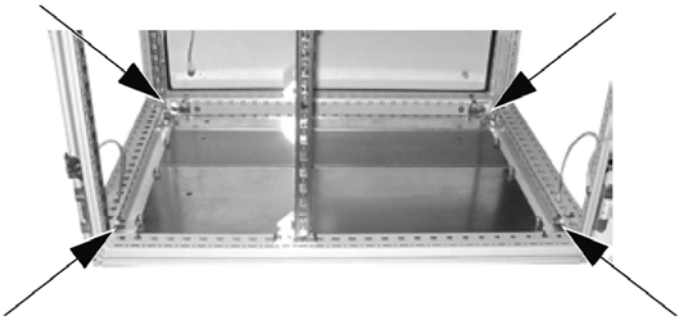
2.1.5 Installing the Drive

Warning: Metal shavings or debris in the enclosure can damage electrical equipment and create a hazardous condition. Where parts, such as conduit plates require cutting or drilling, first remove the part. If that is not practical, cover nearby electrical components to protect them from all shavings or debris.

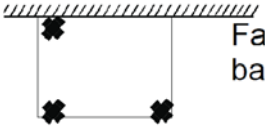
2.1.5.4 Prepare the Mounting Location – R8

The ACB530 should only be mounted where all of the requirements defined in “Preparing for Installation” are met.

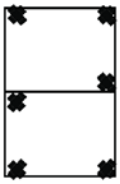
Frame size R8 has mounting holes inside the enclosure base. See “UL Type/NEMA 1&12, Floor Mount Enclosure Mounting Dimensions”.



Where it is not possible to use either mounting hole at the back of the base, use an L-bracket at the top of the enclosure to secure the cabinet to a wall or to the back of another enclosure. Bolt the L-bracket to the enclosure using the lifting lug bolt hole on the top of the enclosure.

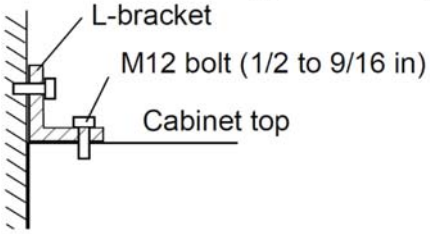


Fastening points when installed back against a wall (Top view)



Fastening points when installed back against back

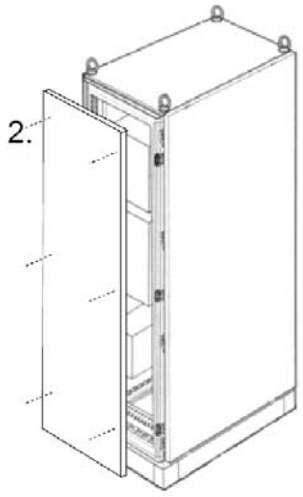
Fastening the cabinet at the top using L-brackets (side view)



2.1.5.5 Remove Side Panels – R8 UL Type/NEMA 1 & 12 Enclosures

Cabinet Door

1. To open the cabinet door, loosen the quarter-turn screws that hold the cabinet door closed.
2. Installation access is easier if these panels are kept off throughout the installation.



1. Use a hoist to move the cabinet into position.

Note: If the cabinet location does not provide access to the cabinet sides, be sure to re-mount side panels before positioning cabinet.

2. Install and tighten mounting bolts.

2.1.6 Installing the Wiring

WARNING:

- **Metal shavings or debris in the enclosure can damage electrical equipment and create a hazardous condition. Where parts, such as conduit plates require cutting or drilling, first remove the part. If that is not practical, cover nearby electrical components to protect them from all shavings or debris.**
- **Do not connect or disconnect input or output power wiring, or control wires, when power is applied.**
- **Never connect line voltage to drive output Terminals T1, T2, and T3.**
- **Do not make any voltage tolerance tests (Hi Pot or Megger) on any part of the unit. Disconnect motor wires before taking any measurements in the motor or motor wires.**
- **Make sure that power factor correction capacitors are not connected between the drive and the motor.**

Wiring Requirements

Refer to the “Wiring Requirements” Section in MN796, the ACB530-U1 User’s Manual. The requirements apply to all ACB530 drives. In particular:

- Use separate, metal conduit runs for the following different classes of wiring:
  - Input power wiring.
  - Motor wiring.
  - Control/communications wiring.
- Properly and individually ground the drive, the motor and cable shields.

Power Connection – Standard Drive with Input Disconnect (Floor Mounted)

UL Type/NEMA 1 & 12 floor mounted ACB530 Standard Drive with Input Disconnect units are configured for wiring access from the top and include a removable conduit mounting plate. The following figure shows the wiring connection points. Refer to MN796, the ACB530-U1 User's Manual for control connections to the drive.

2.1.6.1 Install the Line Input Wiring

Line Input Connections – Standard Drive with Input Disconnect Configurations

Connect input power to the terminals of the disconnect switch or circuit breaker. Connect the equipment grounding conductor to the ground lug. The figure below shows the connection points for Standard Drive with Input Disconnect configurations.

WARNING: Check the motor and motor wiring insulation before connecting the ACB530 to line power. Follow the procedure in MN796, the ACB530-U1 User's Manual. Before proceeding with the insulation resistance measurements, check that the ACB530 is disconnected from incoming line power. Failure to disconnect line power could result in death or serious injury.

NOTE: For the remainder of the installation and start-up (motor and control wiring) refer to MN796, the ACB530-U1 User's Manual.

Chapter 3
Maintenance

3.1 Maintenance

3.1.1 Maintenance Intervals

If installed in an appropriate environment, the drive requires very little maintenance. This table lists the routine maintenance intervals recommended by Baldor.

Maintenance	Configuration	Interval	Instruction
Check/replace floor mount enclosure inlet air filter	Floor mount UL Type / NEMA 12 enclosures	Check every 3 months. Replace as needed.	"Floor Mount – UL Type / NEMA 12 Enclosure Inlet Air Filter"
Check/replace floor mount enclosure exhaust air filter.	Floor mount UL Type / NEMA 12 enclosures	Check every 6 months. Replace as needed.	"Floor Mount – UL Type / NEMA 12 Enclosure Exhaust Filters"
Check and clean heatsink.	All	Depends on the dustiness of the environment (every 6…12 months)	See "Maintenance" in MN796, the ACB530-U1 User's Manual.
Replace drive module fan.	All	Every six years	See "Maintenance" in MN796, the ACB530-U1 User's Manual.
Replace enclosure fan(s).	NEMA 12	Every three years	See "Enclosure Fan Replacement – UL Type / NEMA 12 Floor Mount Enclosures". For other frame sizes, see "Maintenance" in MN796, the ACB530-U1 User's Manual.
Replace battery in the Assistant control panel.	All	Every ten years	See "Maintenance" in MN796, the ACB530-U1 User's Manual.

3.1.2 Drive Module Fan Replacement

The drive module fan cools the heatsink. Fan failure can be predicted by the increasing noise from fan bearings and the gradual rise in the heatsink temperature in spite of heatsink cleaning. If the drive is operated in a critical part of a process, fan replacement is recommended once these symptoms start appearing. Replacement fans are available from Baldor. Do not use other than Baldor specified spare parts.

Refer to the installation instructions supplied with the fan kit.

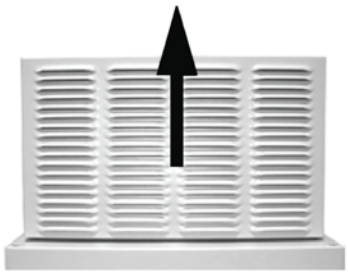
3.1.3 Enclosure Fan Replacement – UL Type / NEMA 12 Floor Mount Enclosures

UL Type 12 / NEMA 12 enclosures include an additional fan (or fans) to move air through the enclosure.

3.1.3.1 Floor Mount– UL Type / NEMA 12 Enclosures

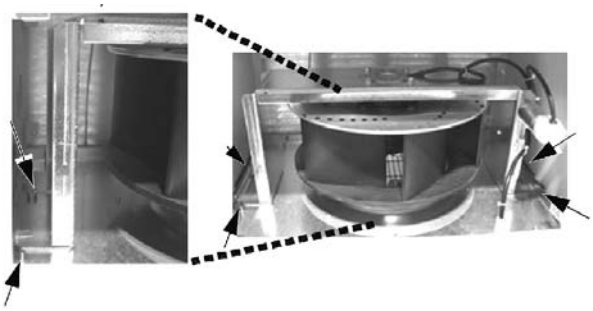
The enclosure fan is located in the exhaust box on top of the UL Type / NEMA 12 enclosure.

1. Remove the left and right filter frames of the exhaust fan box by lifting them upwards.

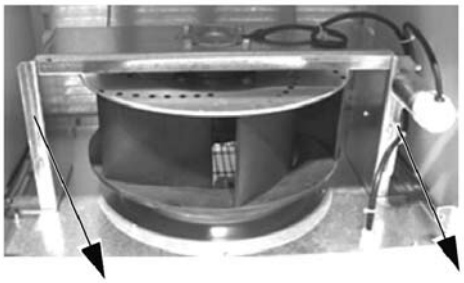


2. Disconnect the fan's electrical connector from the cabinet roof (top right Inside the cabinet).

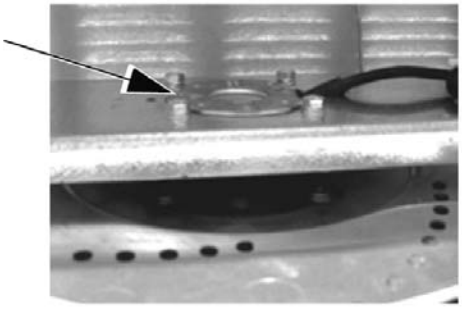
3. Undo the four fastening screws at the corners of the fan frame. The screws are through bolts with nuts on the inside of the cabinet. (Do not drop the hardware into the drive).



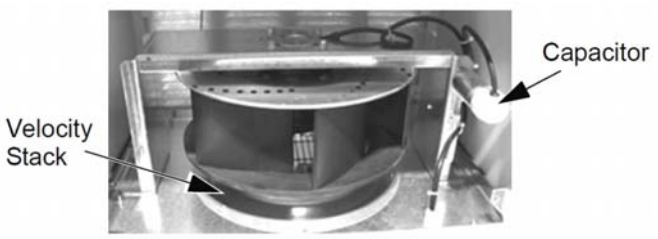
4. Remove the fan and fan frame as one unit.



5. Disconnect the fan wiring and capacitor from the fan frame. Then remove the four screws attaching the fan to the fan frame. Remove the old fan.



6. Install the new fan and capacitor with the replacement part for Baldor in the reverse order of the above. Ensure the fan is centered on the velocity stack and rotates freely.



3.1.4 Floor Mount - UL Type / NEMA 12 Filter Material

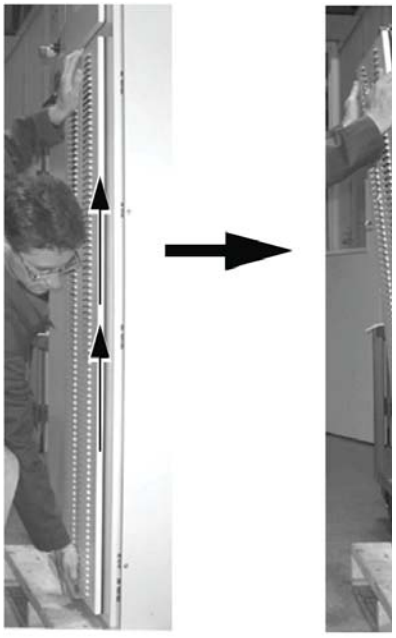
Enclose Type	Inlet (door)	Outlet (roof)
UL Type / NEMA 12	3AUA0000006723 (qty 1)	3AUA0000006722 (qty 2)

Note: When installing the filter media, the white side must face the outside of the cabinet and the colored side must face the inside of the cabinet.

3.1.5 Floor Mount – UL Type / NEMA 12 Enclosure Inlet Air Filter

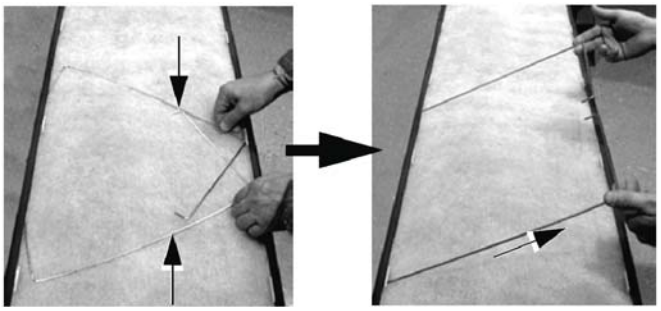
The inlet air filter for the R8 UL Type / NEMA 12 enclosure is located in the enclosure front door.

1. While holding the top of the filter frame, pull up on the bottom of the frame. The filter frame will slide up approximately 3/4 inch and can then safely removed by tilting away from the cabinet and lifting up.

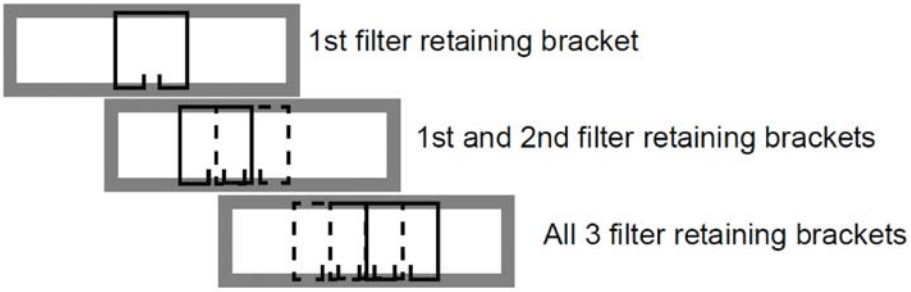


2. Lay the filter frame on a flat work surface. Remove the 3 retaining brackets by squeezing the tabbed corners in towards the middle of each bracket until the bracket clears the filter frame. Save these brackets for replacement. Remove and inspect the filter.

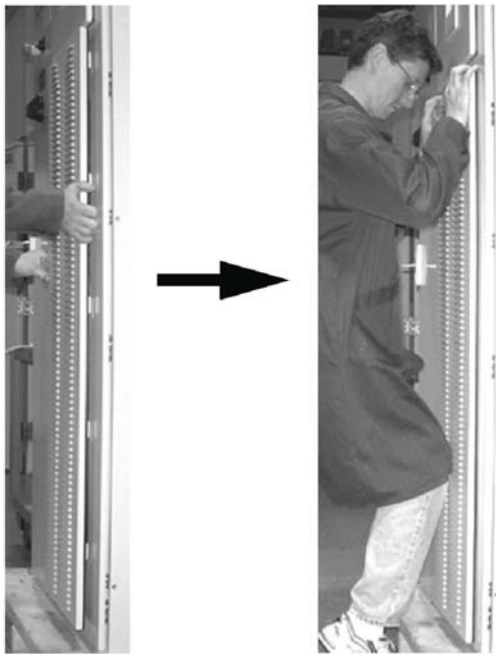
3. Install the replacement filter. Be sure to tuck the filter into the grove around the entire filter frame. This is very important for proper installation.
4. Reinstall the 3 filter restraining brackets. These will prevent the filter from being pulled out of the filter frame.
    - Install the center bracket first.
    - Install the 2nd bracket overlapping the center bracket by ½ to the left.



- Install the 3nd bracket overlapping the center bracket by ½ to the right.



5. Install the filter frame back to the cabinet door. Carefully align the mounting hooks to the slots in the cabinet door. The hooks should be pointing down. Press in at the center of the filter frame with your knee and gently press down with your hands at the top of the frame. The filter frame will slide down approximately ¾ inch and should be sealed securely to the door around the entire filter frame.



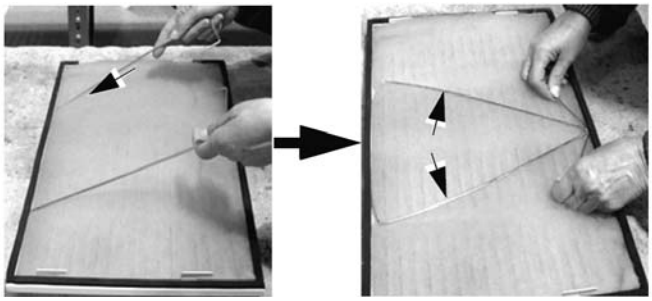
3.1.5.2 Floor Mount – UL Type / NEMA 12 Enclosure Exhaust Filters

The exhaust filters in the floor mount UL Type / NEMA 12 enclosure are located in the exhaust box at the top of the enclosure.

There are 2 filter frames attached to the exhaust box.

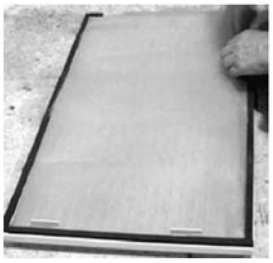
1. Remove each filter frame:
   - Lift up on the filter frame until it slides approximately ¾ inch.
   - Pull away from the exhaust box to remove.

2. For each filter frame, remove the wire retainers that hold the filters in place:
   - Lay the filter frames on a flat work surface.
   - The wire retainers have a square “U” shape. Remove by squeezing the open end of the “U” towards the middle of the “square” until the retainer top (open end of “U”) clears the filter frame.
   - Save the retainers for reinstallation.

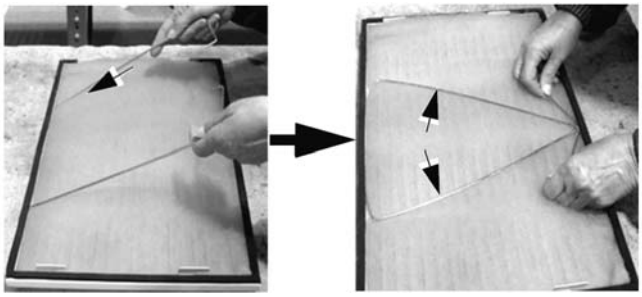


3. Remove and inspect the filter.
4. Install clean filters.

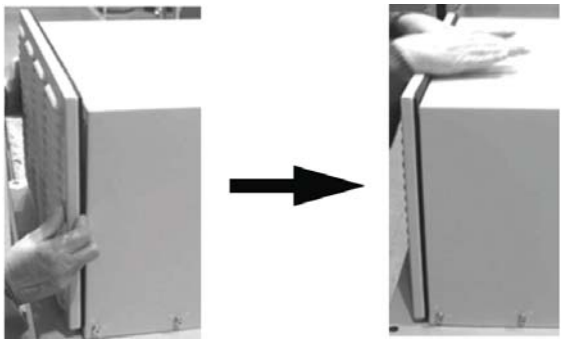
Note: When installing filter media, the white side must face to outside of the cabinet, and the colored side faces in. Be sure to tuck the filter edges into the groove around the entire filter frame. This detail is very important for proper operation.



5. Reinstall the filter restrainers.
   - Insert the base of a retainer (bottom of “U” shape) into a filter frame channel.
   - Squeeze the open end of the “U” until it clears the filter frame.
   - Seat the open end of the “U” in the filter frame channel.
   - Release the retainer to its relaxed, square shape.



6. Install each filter frame to the bonnet on top of the cabinet.
   - Carefully align the frame’s mounting hooks with the slots in the bonnet. (The hooks should be pointing down.)
   - Press down at the top of the filter frame. (The filter frame slides down approximately ¾ inch).
   - Check all around the filter frame for a secure seal to the exhaust box.



Chapter 4
Technical Data

4.1 Ratings

Note: The ratings listed below are exceptions to the ratings listed in MN796, the ACB530-U1 User's Manual.

4.1.1 Ratings, 480 Volt Drives

Type Code	Valid up to 40°C (104 °F)				Frame Size
	Normal Use		Heavy-Duty Use		
ACB530-Px-see below	I_{2N} A	P_N HP	I_{2hd} A	P_{hd} HP	
-316A-4	316	250	240	200	R8
-368A-4	368	300	302	250	R8
-414A-4	414	350	368	300	R8
-486A-4	486	400	414	350	R8
-526A-4	526	450	477	400	R8
-602A-4	602	500	515	450	R8
-645A-4	645	550	590	500	R8

4.2 Input Power Connections

4.2.1 Fuses

Note: Although fuses listed are similar in functional characteristics to fuses listed in MN796, the ACB530-U1 User's Manual, physical characteristics may differ. Fuses from other manufacturers can be used if they meet the functional characteristics of those in these tables.

480 Volt Fuses

480 Volt		Base Drive Frame Size	Drive Input Fuse Ratings	
HP	Type Code		Amps(600V)	BussmannType
250	ACB530-PC-316A-4	R8	400	JJS-400
300	ACB530-PC-368A-4	R8	400	JJS-400
350	ACB530-PC-414A-4	R8	600	JJS-600
400	ACB530-PC-486A-4	R8	600	JJS-600
450	ACB530-PC-526A-4	R8	800	JJS-800
500	ACB530-PC-602A-4	R8	800	JJS-800
550	ACB530-PC-645A-4	R8	800	JJS-800

4.2.2 Drive's Power Connection Terminals

The following tables show maximum wire size and required tightening torque for incoming power, motor, and grounding terminals.

4.2.2.1 480 Volt, Terminals

480 Volt		Base Drive Frame Size	Power Wiring Data [1]		
HP	Type Code		Circuit Breaker UL Type / NEMA1 & 12	Motor Terminals	Ground Lugs UL Type / NEMA1 & 12
250	ACB530-PC-316A-4	R8	2 x 500 MCM 274 in-lbs	Refer to "Drives Power Connection Terminals" in MN796, the ACB530-U1 User Manual	5 Bus Bar Holes (13/32")
300	ACB530-PC-368A-4	R8			
350	ACB530-PC-414A-4	R8			
400	ACB530-PC-486A-4	R8			
450	ACB530-PC-526A-4	R8	3 x 400 MCM 375 in-lbs		
500	ACB530-PC-602A-4	R8			
550	ACB530-PC-645A-4	R8			

[1]Torque values shown relate to current production. Check component labels on previously installed units for required tightening torque.

4.3 Motor Connections

4.3.1 Motor Connection Specifications – R8

Motor Connection Specifications – R8				
Maximum Motor Cable Length	**Frame Size**	**Max. Motor Cable Length***		
		fsw = 1 or 4 kHz		**fsw = 8 kHz or 12 kHz**
	R8	300 m	980 ft	Does not apply
*** Warning: Using a motor cable longer than specified in the chart above may cause permanent damage to the drive.**				

4.3.2 Cooling – R8

Cooling Specifications	
Method	Internal fan, flow direction from bottom to top.
Requirement	• R8: Free space in front of enclosure: 152 mm (6 in). • R8: Free space above enclosure: None required for cooling. • R8: Free space at sides of enclosure: None required for cooling. • R8: Also see "Additional Free Space Recommendations" on page 37.

Air Flow, 480 Volt Drives – R8

The following table lists heat loss and air flow data for 480 Volt drives.

Drive		Heat Loss		Air Flow	
ACB530-xx-	**Frame Size**	**W**	**BTU/Hr**	**m3/h**	**ft3/min**
-316A-4	R8	5300	18000	700	1220
-368A-4	R8	6850	23000	700	1220
-414A-4	R8	7000	24000	700	1220
-486A-4	R8	7600	26000	700	1220
-526A-4	R8	7800	27000	700	1220
-602A-4	R8	8100	28000	700	1220
-645A-4	R8	9100	31000	700	1220

4.4 Dimensional Reference

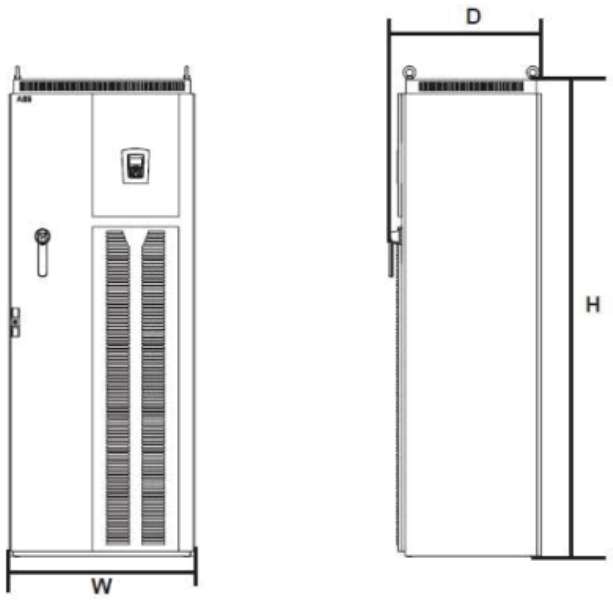
The following tables contain dimensional references that identify the dimensional information applying to a given type code.

4.4.1 480V Drive with Disconnect

HP	Type Code	AMP	Base Drive Frame	UL Type / NEMA 1 Dim. Ref.	(+B055) UL Type / NEMA 12 Dim. Ref.
250	ACB530-PC-316A-4	316	R8	PX1-8	PX12-8
300	ACB530-PC-368A-4	368	R8	PX1-8	PX12-8
350	ACB530-PC-414A-4	414	R8	PX1-8	PX12-8
400	ACB530-PC-486A-4	486	R8	PX1-8	PX12-8
450	ACB530-PC-526A-4	526	R8	PX1-8	PX12-8
500	ACB530-PC-602A-4	602	R8	PX1-8	PX12-8
550	ACB530-PC-645A-4	645	R8	PX1-8	PX12-8

4.5 Dimensions and Weights

Dimensions: ACB530-Px UL Type / NEMA 1

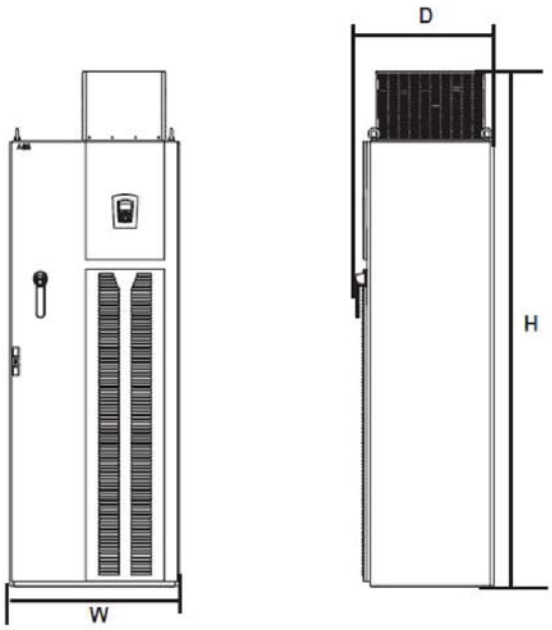


Floor Mount (PX1-8)

Dimension Reference	UL Type / NEMA 1 Mounting Dimensions mm [inches]			UL Type / NEMA 1 Dimensions and Weights mm kg [inches] [lbs]				
	H1	W1	Mouting Hardware	Height (H)	Weight (W)	Depth (D)	Weight	Dimension Drawing
PX1-8[1]	Free Standing		Ø16 [Ø0.63]	2125 [83.7]	806 [31.7]	659 [25.9]	360 [794]	3AUA000021152 Sheet 1

[1.] See Section 4.5.4, UL Type / NEMA 1 & 12 - Floor Mount Enclosure Mounting Dimensions for mounting dimension details and additional free space recommendations.

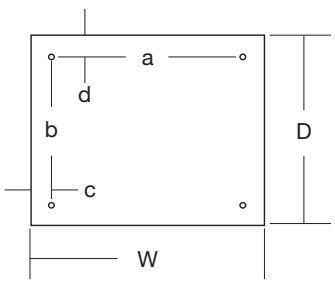
Dimensions: ACB530-PxR UL Type / NEMA 12



Floor Mount (PX12-8)

Dimension Reference	UL Type / NEMA 1 Mounting Dimensions mm [inches]			UL Type / NEMA 1 Dimensions and Weights mm kg [inches] [lbs]				
	H1	W1	Mouting Hardware	Height (H)	Weight (W)	Depth (D)	Weight	Dimension Drawing
PX1-8[1]	Free Standing		Ø16 [Ø0.63]	2125 [83.7]	806 [31.7]	659 [25.9]	360 [794]	3AUA000021152 Sheet 1
[1.] See Section 4.5.4, UL Type/NEMA 1 & 12 - Floor Mount Enclosure Mounting Dimensions for mounting dimension details and additional free space recommendations.								

4.5.1 UL Type / NEMA 1&12, Floor Mount Enclosure Mounting Dimensions

UL Type/NEMA 1 & 12 – Floor Mount Enclosure Mounting Dimensions			
Ref.	R8		Top View
	mm	in	
W	806	31.7	
D	659	25.9	
a	675	26.6	
b	474.5	18.7	
c	61	2.4	
d	65.5	2.6	
Mounting Hardware			
	11 mm	13/32	

Additional Free Space Recommendations
In addition to the free space requirements for cooling (“Cooling - R8”), allow:
•800 mm (31.5 in) in front of UL Type / NEMA 1&12 floor mount enclosures – room for the cabinet door to swing open.
•305 mm (12 in) above UL Type 12 / NEMA 12 floor mount enclosures – room for fan replacement.

4.6 Applicable Standards

Drive compliance with the following standards is identified by the standards “marks” on the type code label.

Mark	Applicable Standards	
	UL 508C and C22.2 No. 14	UL Standard for Safety, Power Conversion Equipment, second edition and CSA Standard for Industrial Control Equipment
	UL 508A	UL Standard for Safety, Industrial Control Panels
	C22.2 No. 14	CSA Standard for Industrial Control Equipment

Compliance is valid with the following provisions:

- The motor and control cables are chosen as specified in this manual.
- The installation rules of this manual are followed.

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